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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/741,658 12/19/2003		Kanji Nakamura	09659/100L377-US1	3824	
7278 75	590 06/15/2006	EXAMINER			
DARBY & DARBY P.C. P. O. BOX 5257			RAMIREZ, DELIA M		
	, NY 10150-5257	•	ART UNIT	PAPER NUMBER	
			1652		

DATE MAILED: 06/15/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary			Application No.	Applicant(s)	Applicant(s)			
			10/741,658	NAKAMURA ET AL.				
			Examiner	Art Unit				
			Delia M. Ramirez	1652				
Period fo	 The MAILING DATE of this communior Reply 	cation appe	ars on the cover sheet	with the correspondence a	address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAN INSIDE OF THE MAN INSIDE	AILING DA of 37 CFR 1.136 unication. tutory period will will, by statute, or	TE OF THIS COMMUN (a). In no event, however, may I apply and will expire SIX (6) M rause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).				
Status								
1)[]	Responsive to communication(s) file	d on						
			ection is non-final.					
3)	,—							
-,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims	•						
4)⊠	4)⊠ Claim(s) <u>21-24</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
	Claim(s) is/are rejected.							
	Claim(s) is/are rejected. Claim(s) is/are objected to.							
	Claim(s) <u>21-24</u> are subject to restrict	ion and/or e	election requirement.					
	on Papers							
	•							
	The specification is objected to by the							
10)[_]	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any object							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
11)[_]	The oath or declaration is objected to	by the Exa	miner. Note the attach	ed Office Action or form F	³ 1O-152.			
Priority ι	ınder 35 U.S.C. § 119							
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
	 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 							
	_				10			
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
* 0	application from the Internation		• • • • • • • • • • • • • • • • • • • •	-4				
3	See the attached detailed Office action	i ioi a list 0	i ine cerimea copies no	ot received.				
Attachmen	tic)							
_	e of References Cited (PTO-892)		A) Intention	v Summary (PTO-413)				
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (P)		Paper N	o(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:								
	7 aper No(5)/Wall Date 0) Outer							

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DETAILED ACTION

Status of the Application

Claims 21-24 are pending.

Applicant's preliminary amendment canceling claims 1-20 and adding new claims 21-24 in a communication filed on 12/19/2003 is acknowledged.

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 21-24, drawn to a method for detecting chlorinated ethylene-decomposing bacteria in a sample using the polynucleotide of SEQ ID NO:2, classified in class 435, subclass 6.
 - II. Claims 21-24, drawn to a method for detecting chlorinated ethylene-decomposing bacteria in a sample using the polynucleotide of SEQ ID NO:3, classified in class 435, subclass 6.
 - III. Claims 21-24, drawn to a method for detecting chlorinated ethylene-decomposing bacteria in a sample using the polynucleotide of SEQ ID NO:4, classified in class 435, subclass 6.
 - IV. Claims 21-24, drawn to a method for detecting chlorinated ethylene-decomposing bacteria in a sample using the polynucleotide of SEQ ID NO:5, classified in class 435, subclass 6.
 - V. Claims 21-24, drawn to a method for detecting chlorinated ethylene-decomposing bacteria in a sample using the polynucleotide of SEQ ID NO:6, classified in class 435, subclass 6.
 - VI. Claims 21-24, drawn to a method for detecting chlorinated ethylene-decomposing

bacteria in a sample using the polynucleotide of SEQ ID NO:7, classified in class 435, subclass 6.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I-VI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the methods of Inventions I-VI while comprising the same steps, use different products and would detect different bacteria.
- 3. The nucleic acids required in the methods of Groups I-VI are members of an improper Markush group as the nucleic acids do not have unity of invention according to MPEP § 803.02. Each of the nucleic acids required in Groups I-VI comprise an unrelated nucleotide sequence. As such, each of the required nucleic acids can be used to probe different targets. Therefore, there is no unity of invention within the members of the Markush group as there is no shared common utility and there is no shared substantial structural feature disclosed as being essential to that utility.
- 4. As set forth in MPEP § 803, the criteria for a proper restriction between patentably distinct inventions requires that the inventions must be independent or distinct as claimed, and a search of all the inventions would impose a serious burden on the examiner. Groups I-VI have been shown to be independent or distinct, for the reasons set forth above. MPEP § 803 also indicates that a serious burden on the examiner may be prima facie shown if the Examiner shows by appropriate explanation either separate classification, separate status in the art, or a different field of search. The inventions of Groups I-VI have acquired a separate status in the art because of their recognized divergent subject matter, as shown by their different classification. In addition, a search of all the inventions would require at a minimum a separate patented/non-patented literature search and a class/subclass search. These searches are not all co-extensive. Therefore a comprehensive examination of all groups would impose an undue burden on the Examiner. Thus, restriction for examination purposes as indicated is proper.

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5. Applicant is advised that the reply to this requirement to be complete must include an election of

the invention to be examined even though the requirement can be traversed (37 CFR 1.143).

6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the

inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named

inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of

inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37

CFR 1.17(i).

7. Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained

from either Private PAIR or Public PAIR. Status information for unpublished applications is available

through Private PAIR only. For more information about the PAIR system, see http://pair-

direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Delia M. Ramirez whose telephone number is (571) 272-0938. The examiner can normally be reached on Monday-Friday from 8:30 AM to 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Ponnathapura Achutamurthy can be reached on (571) 272-0928. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1600.

Delia M. Ramirez, Ph.D.

Patent Examiner
Art Unit 1652

DR

June 11, 2006